WHAT IS CLAIMED IS:

1. A door lock comprising:
a cylinder (10) installed in a lock hole (61) of a door (60) and located at
an exterior surface of the door (60), the cylinder (10) having a core (11) rotatably
received therein, a flat finger (12) connected with the core (11), and a plurality of
threaded holes (13) defined in the cylinder (10) around the core (11);
a latch (20) movably provided in a latch hole (62) of the door (60) and
the flat finger (12) extending through the latch (20);
an inner cover (30) provided at an interior surface of the door (60)
opposite to the cylinder (10), the inner cover (30) having a plurality of sink holes
(31) defined therethrough and corresponding to the threaded holes (13), a
plurality of first screws (33) extending through the sink holes (31) and engaged
in the threaded holes (13), and a first central opening (32) defined therethrough;
an outer cover (40) provided outside the inner cover (30) and concealing
the inner cover (30), the outer cover (40) having a second central opening (41)
defined therethrough and aligned with the first central opening (32);
a knob (50) provided outside the outer cover (40), the knob (50) having a
resilient member (52) against the outer cover (40) provided at an end facing the
outer cover (40), and a hollow shaft (53) extending through the first opening (32)
and the second opening (41) and having a front end (532) connected with the
finger (12) and a rear end (531) engaged with the knob (50);
whereby, when the knob (50) is turned, the latch (20) can be extended or
retracted to lock/unlock the door (60).
2. The door lock as claimed in claim 1 further comprising a guard plate

- 1 (70) provided inside the inner cover (30) and having a flange (71) received in the
- 2 lock hole (61), an edge (72) abutting a rim (35) of the inner cover (30), a plurality
- 3 of first holes (73) corresponding to the sink holes (31) of the inner cover (30)
- 4 defined through the guard plate (70) and the first screws (33) respectively
- 5 extending through the first holes (73), a third central hole (74) defined through
- 6 guard plate (70) and aligned with the first central hole (32) for the shaft (53)
- 7 extending therethrough.
- 3. The door lock as claimed in claim 1 further comprising a guard plug
- 9 (80) provided inside the inner cover (30), and having a first step (81) and a
- 10 second step (82), wherein a diameter of the first step (81) is smaller than a
- diameter of the second step (82), and the first step (81) and second step (82) are
- selectively received in the lock hole (61) and the inner cover (30), a shoulder (83)
- formed between the first step (81) and the second step (82) and abutting the rim
- 14 (35) of the inner cover (30), a plurality of second holes (85) respectively aligned
- with the sink holes (31) for the first screws (33) extending through the second
- holes (85), and a fourth central hole (84) defined through the guard plug (80) for
- 17 the shaft (53) extending therethrough.
- 4. The door lock as claimed in claim 1, wherein the knob (50) has a
- 19 ringed recess (51) defined at the end facing the outer cover (40) and the resilient
- 20 member (52) is received in the recess (51).
- 21 5. The door lock as claimed in claim 1, wherein the inner cover (30) has
- 22 at least two lugs (34) respectively engaged in at least two apertures (42) of the
- outer cover (40) to fasten the outer cover (40).
- 24 6. The door lock as claimed in claim 5, wherein the lugs (34) are formed

- 1 around the first central opening (32), and the apertures (42) are defined around
- 2 the second central opening (41).
- 3 7. The door lock as claimed in claim 1, wherein the knob (50) further has
- 4 a shaft hole (55) longitudinally defined therein, and the rear end of the shaft (53)
- 5 is matingly positioned in the shaft hole (55).
- 8. The door lock as claimed in claim 7, wherein the cross sections of the
- 7 shaft hole (55) and the rear end (531) of the shaft (53) are polygonal.
- 8 9. The door lock as claimed in claim 7, wherein the knob (50) further has
- 9 a threaded aperture (56) radially defined through the shaft hole (55), and a
- second screw (57) engaged in the threaded aperture (56) to fasten the shaft (53)
- in the shaft hole (55).
- 12 10. The door lock as claimed in claim 1 further comprising a sleeve (58)
- provided outside the front end (532) of the shaft (53) and having an opening (581)
- 14 for the finger (12) extending therethrough.